



Classification: Energy Commission Specialist II (EFF)	Position No. 5800-4936-002
CBID: R10	Office: Energy Efficiency Research Office
Date Prepared: April, 2012	Division: Energy Research and Development
KEY: (E) IS ESSENTIAL, (M) IS MARGINAL	

Under the general direction and supervision of the Energy Commission Supervisor II in the Energy Efficiency Research Office and the programmatic lead of the Energy Commission Specialist III for the Research and Development (R&D) Industrial Agricultural and Water (IAW) Energy Efficiency program area, the incumbent serves as a member of the IAW Team to develop, implement and administer electricity and natural gas-based public interest energy Research, Development and Demonstration (RD&D) efforts related to industrial, agricultural, water and wastewater treatment market sectors. The goal of the R&D Program is to conduct RD&D to advance science and technologies not adequately provided by the regulated and competitive markets. The incumbent performs highly complex and difficult analyses, develops and manages highly complex research projects and assists in the development of public interest energy research program policy. The incumbent provides technical leadership, direction, and coordination efforts for the IAW unit's research and development needs associated with water and wastewater energy efficiency with emphasis on achieving state energy and water efficiency goals. The incumbent will work within an interdisciplinary team or teams and assists with program planning in the IAW Efficiency subject area and demonstrations of R&D-funded technologies in the water, industrial and agricultural sectors.

The goal of the public interest energy research program is to conduct research, development and demonstration to advance science and technologies not adequately provided by the regulated and competitive markets. The incumbent is highly knowledgeable of advanced energy efficiency concepts, technologies, and practices; performs time-critical and subject matter-critical technical or market analyses to support public interest energy RD&D funding; manages highly complex RD&D projects; and consults with experts in the field.

WORKING CONDITIONS

The work is performed in an indoor office or meeting room setting and involves sitting, standing, and/or walking. Occasional travel may occur outside Sacramento. Additional hours beyond an eight-hour workday or forty-hour workweek may be required. While performing these duties described below, the incumbent will be required to work alone and/or in a team environment, using a personal computer and appropriate Energy Commission software such as word processing, electronic mail and Internet; participate and lead meetings with other staff and public and private research agencies.



DUTIES AND RESPONSIBILITIES

The incumbent will perform the most difficult, highly complex tasks as follows:

- 45% Serve as a lead technical specialist for identifying, analyzing and evaluating research and development issues related to water and wastewater energy efficiency. The incumbent will do the following (E):
- a) Implement energy related projects associated with improving the energy efficiency and reducing greenhouse gas emissions associated with the water and wastewater industry. Example research areas include water conservation, metering, treatment, conveyance, water recycling and reuse, water use optimization for agricultural and landscape irrigation and pumping, wastewater treatment efficiency and biomethane productions; and baseline water cycle studies that address embodied energy in water.
 - b) Plan the research strategy for maximizing energy efficiency in the water and wastewater sector and meeting state energy policy goals, including meeting with key stakeholders and trade associations to understand research needs, identifying target technologies, development and demonstrations of technologies, tools and strategies, determining rate payer benefits and identifying needed market support and technical assistance needed to overcome barriers.
 - c) Provide expert guidance, consultation and policy direction to program management on more complex technical energy issues within the R&D IAW Energy Efficiency area. Assist the R&D IAW Efficiency team in the formulation and refinement of guidelines, standards, policy options and core area program initiatives for development and demonstration of emerging water and wastewater energy efficiency technologies, for consideration by the Deputy Director for Energy Research and Development, the Executive Office, Commissioners, and the Legislature, and other stakeholder agencies.
- 40% Develop, organize, and manage highly sensitive, and the most complex technical or scientific projects and research studies in the R&D IAW Energy Efficiency subject area, especially research associated with water and wastewater energy efficiency and its relationship to meeting California's energy policies and objectives. The incumbent serves in a team leadership role and will do the following (E):
- a) Prepare research project plans, assists with solicitation planning, development and implementation, specifies project tasks and estimates budgets for research projects in the IAW energy efficiency area
 - b) Manage the most complex research projects
 - c) Review and comment on draft deliverables submitted by research contractors to ensure that the work performed meets the goals of the contract
 - d) Conducts detailed field inspections of material, equipment and operations associated with research projects
 - e) Reviews recommendations by other staff or research contractors
 - f) Prepares written status reports, oral briefings, presentations and other documents on the status and results of funded research, including documentation of technical, economic and other benefits resulting from the research and benefits to ratepayers.
 - g) Coordinate with local, regional, state, and federal government entities, utilities, industry and other stakeholders to facilitate the coordination of public interest energy policies and objectives, technologies and other research programs and studies.

DUTY STATEMENT

CEC-004 (Revised 04/07)

PROPOSED

CALIFORNIA ENERGY COMMISSION



- 5% Serve as a prime resource in preparing and presenting conclusions and recommendations and provide subject-matter expert consultation to the Commission, other governmental agencies, legislature, media and private entities regarding studies and topics within the incumbent's assigned areas of expertise. Performing this duty may require travel. (E)
- 5% Organize, prepare and make presentations at workshops, seminars and conferences; write case studies and technical papers for professional journals and industry publications; provide expert testimony on highly complex and technical problems relating to the IAW program area at hearings and proceedings sponsored by the Legislature, the Energy Commission, other state and federal agencies, utilities, and other entities related to energy efficiency RD&D. Perform other duties as required consistent with the specifications of this classification. (M)
- 5% Perform other duties as required consistent with the specifications of this classification. (M)

SIGNATURES			
I Certify That I Am Able To Perform, With Or Without The Assistance Of A Reasonable Accommodation, The Essential Job Duties Of This Position			
Employee	Date	Supervisor	Date